

Friday August 16, 2019 730pm

Our Saviors Lutheran Church

1035 Carol Lane Lafayette

DX Interest Group Meeting

With Dave Piersall, N6ORB 6:30pm

*** License Testing 6pm ***

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AUGUST PROGRAM

THE MIGHTY TRANSISTOR!



Kristen McIntyre, K6WX

What's so great about transistors? Everything! They are in most of what we use these days, serving as amplifiers, switches, and the basic elements of logic. Do you know how they work? How to design with

them? Some of the fundamental circuit topologies? The different kinds? If not, let's learn about them. There are many things that you can learn that will allow you design simple circuits that make life easier. We will explore semiconductor physics, bipolars, FETs, the three basic topologies of simple amplifiers, differential amps, Darlingtons, cascodes, and much more. Throw away those black boxes, and design with **The Mighty Transistor!**

K6WX is an Assistant Director for the ARRL Pacific Division, President of the Palo Alto Amateur Radio Association, the Q&A editor of Nuts & Volts magazine and is active in many local amateur radio clubs. She received her first amateur radio license in 1979 while at MIT.





Trisha T. Pritkin, N6PAX

If you hear this new member on the air,
please welcome her to our club.

— *Tom Deeble, KA6SIP*



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You shop. Amazon gives.

When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:

<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN
THE CLUB E-MAIL GROUP.
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS
SHARE INFORMATION WITH THE
MEMBERSHIP AT:

<https://groups.io/g/MDARC>

(the Yahoo group will be abolished)

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE

Vice President - Ed Morales, KJ6KYT

Secretary – Larry Loomer, KI6LNB

Treasurer - Cathi Walton, K2CJW

Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large

Trevor Hall, WA6JAU

Dave Piersall, N6ORB

John Primus, AF6RJ

Mike Warren, W6MEW

Membership Chair – Tom Deeble, KA6SIP

mdarcmembership@mdarc.org

PACIFICON 2019

Co-Chairs: Misa Siemons, KJ6BUE,

Vicki Zumwalt, N6KLS, Julie Mah, WJ8MAE

Registration: Debbie Deeble

Treasurer: Jim Siemons, W6LK

Secretary: Cathi Walton, K2CJW

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK

Communications Trailer - Mike Warren, W6MEW

Communications Van MDARC -1 - Jim Tittle, K6SOE

Digital Media - Mike Patterson, N6JGA

Education & Training - John Primus, AF6RJ

Field Day - Larry Loomer, KI6LNB

Good & Welfare - Diana Sage, KA6TZU

Holiday Dinner - Misa Siemons, KJ6BUE

License Testing - Larry Loomer, KI6LNB

Outreach - Dick Wade, WM6G

Public Service - Klaus Berkner, K6KHB

Refreshments—Elizabeth Styles, KG6HLV

Repeater Trustee W6LGW - Dick Brown, KT6X

Repeater Trustee W6CX - Jim Tittle, K6SOE

Technical Committee - Jim Siemons, W6LK

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President's Message

August 2019

MDARC Family,

By the time you read this in the Carrier I will have returned from spending time with my family during our bi-annual family reunion along the Oregon coast.

As I am writing this, Carol and I are preparing for this trip, so this will be a brief message.

On Saturday, the 3rd I volunteered with Marin Amateur Radio Society (MARS) to provide communication support for the MCBC Marin Century Bike Ride which included a variety of routes and distances. There were 2300 cyclists in this event which made for a lot of activity and at our rest stop we certainly had our fair share of radio comms to help coordinate SAG vehicle logistics and rest stop supply needs.

During this time in a conversation with co-volunteers Mark, N6CS and Becky, KN6BEN we discussed the club strengths between MARS and MDARC. Obviously both club's have a lot of great strengths, but when I consider those strengths which are readily seen by the public, I think that MARS excels in Public Service; MDARC in Training and Education.

So let me highlight this MDARC strength:

By the end of 2019 MDARC will have provided ---

- Technician Licensing Courses: two courses, each with 8 sessions
- General Licensing Course: one course with 9 sessions
- HT Getting on the Air: two courses, each with 2 sessions
- HF Getting on the Air: one course with 1 session
- Emergency Preparedness or Auxiliary Training: 4 sessions
- License Testing: three test sessions at the conclusion of each licensing course

Except for our "layover months" in July and December, we are committed 10 months of the year to actively prepare students for getting their first amateur radio license, assisting license holders in upgrading their license, and providing training to increase ham operator knowledge and skill sets. Whew! A lot of work and a lot commitment!

How are we able to accomplish this?

- Thanks to the gratitude of Trinity Lutheran Church in Walnut Creek we have a superb location for holding these sessions. (Thanks Dave Moore, K6REV)
- We have strong Leadership with John Primus, AF6RJ

- We have a very committed and willing members of the MDARC Instructional Team willing to lead the many discussion groups.
- We have Elmers available at each session to assist students.
- We have VEs willing to officiate during license testing and coordinated by Larry Loomer, KI6LNB.

A picture can say it even better.....

Larry Loomer KI6LNB leads discussion for the Safety chapter



Klaus Berkner, K6KHB leads the training for FLDIGI





Larry Loomer, KI6LNB chatting with the VEs prior to the start of license testing.




License testing for all licenses is underway.



Take a look at the schedules below and you will get a good idea of the level of commitment that it takes from many MDARC members to make our Training and Education endeavors such a solid strength.

And while you at it, be sure to thank those who have given their time and knowledge to so many others.

2019 Technician License Course Schedule: Jan-Feb

Date	Session	Chapter	Discussion Leaders
01/10/19	Session 1	Chapter 1: Welcome to Amateur Radio	Lauren Styles, WA6CIE
01/17/19	Session 2	Chapter 7:  License Regulations AND Chapter 8: Operating Regulations	Dick Wade, WM6G
01/24/19	Session 3	Chapter 6: Communicating with Other Hams	Dave Piersall, N6ORB
01/31/19	Session 4	Chapter 3: Electricity, Components and Circuits	Steve Rogge, K6XZ
02/07/19	Session 5	Chapter 2: Radio and Signal Fundamentals	Michelle Paquette, AA6MP
02/14/19	Session 6	Chapter 4: Propagation, Antennas and Feed Lines	Jim Blodgett, K16JB
02/21/19	Session 7	Chapter 5: Amateur Radio Equipment	Mike Warren, W6MEW
02/28/19	Session 8	Chapter 9: Safety	Larry Loomer, K16LNB
03/07/19	Testing	License Testing	Larry Loomer, K16LNB and other VEs
03/14/19	GOTA-1	Amateur Radio Communications Explained	Larry Loomer, K16LNB and Elmers
03/21/19	GOTA-2	Amateur Radio Communications Practiced	Larry Loomer, K16LNB and Elmers

2019 General License Course Schedule: March-May

Date	Session	Chapter	Discussion Leaders
03/28/19	Session 1	Chapter 2 Procedures and Practices	Mike Patterson, N6JGA
04/04/19	Session 2	Chapter 3 Rules and Regulations	Dick Wade, WM6G
04/11/19	Session 3	Chapter 4, Part 1: Components and Circuits-- <i>Electrical Principles, Passive Components, AC Theory</i>	Steve Rogge, K6XZ
04/18/19	No Class	Easter	
04/25/19	Session 4	Chapter 4, Part 2: Components and Circuits - <i>Reactance and Impedance, Active Components, Practical Circuits, Test Equipment</i>	Steve Rogge K6XZ
05/02/19	Session 5	Chapter 5 Radio Signals and Equipment	Trevor Hall, WA6JAU
05/09/19	Session 6	Chapter 6 Digital Modes	Dave Piersall, N6ORB
05/16/19	Session 7	Chapter 7 Antennas	Jim Blodgett, K16JB
05/23/19	Session 8	Chapter 8 Propagation	Michelle Paquette, AA6MP
05/30/19	Session 9	Chapter 9 Electrical and RF Safety	Larry Loomer, K16LNB
06/06/19	Testing	License Testing	Larry Loomer, K16LNB and other V
06/13/19	GOTA	GOTA - HF	Larry Loomer, K16LNB and others

2019 Technician License Course Schedule: August-October

Date	Session	Chapter	Discussion Leaders
08/15/19	Session 1	Chapter 1: Welcome to Amateur Radio	Mike Patterson, N6JGA
08/22/19	Session 2	Chapter 7: License Regulations AND Chapter 8: Operating Regulations	Dick Wade, WM6G
08/29/19	Session 3	Chapter 6: Communicating with Other Hams	Michelle Paquette, AA6MP
09/05/19	Session 4	Chapter 3: Electricity, Components and Circuits	Michelle Paquette, AA6MP
09/12/19	Session 5	Chapter 2: Radio and Signal Fundamentals	Trevor Hall, WA6JAU
09/19/19	Session 6	Chapter 4: Propagation, Antennas and Feed Lines	Jim Blodgett, K16JB
09/26/19	Session 7	Chapter 5: Amateur Radio Equipment	Mike Warren, W6MEW
10/03/19	Session 8	Chapter 9: Safety	Larry Loomer, K16LNB
10/10/19	Testing	License Testing	Larry Loomer, K16LNB and other VEs
10/17/19	GOTA-1	Amateur Radio Communications Explained	Larry Loomer, K16LNB and Elmers
10/24/19	GOTA-2	Amateur Radio Communications Practiced	Larry Loomer, K16LNB and Elmers

Before I go, let me remind you that Pacificon is just around the corner and I urge you to sign up if you've not already done so.

[10/18-20]: Pacificon.org

"The greatest motivational act one person can do for another is to listen." Roy E. Moody

73 Larry Bradley KK6QPE

08/05/19

The Trailer Committee would like our club members to view the revised Trailer Committee web page on the MDARC website. Look under the "Vehicles" heading in the left margin at www.mdarc.org .

At the top of the Trailer page is a panoramic view of the inside of the trailer that shows the four operating positions inside the trailer. Then, a brief history of the trailer follows. Next is a gallery of the construction photographs of the trailer. From these photographs a complete set of drawings has been produced by Mike Pattereson, N6JGA, showing the detailed electrical construction that was designed and installed by Mike Warren, W6MEW. Following that, text and pictures illustrate the trailer in action as a teaching tool and a community outreach vehicle.

Anyone who would like to help with the activities of the trailer is invited to contact Mike Warren, W6MEW, the Trailer Committee Chairman, at <mwarren260@comcast.net>.

Right: Scouts learning about radio operations at the trailer.



Far Right: The trailer ready for deployment.



What's On the Web? Resources Section on www.MDARC.org

In the April edition of the *Carrier*, we had the third article in this occasional series discussing what there is to find on our Club's web site, www.mdarc.org. It was about one of the largest sections there; the Activities area. This month, let's see what's in the other really big area, the [Resources](#) section.

The Resources area has copious amounts of information for members and non-members alike. In fact, we've received emails from users across the nation and even overseas, thanking us for the information, asking questions and even suggesting some additions. The area has a nice even dozen sections in it; but some of those sections are larger than several other web site areas combined.

It starts off with a page on the [Fundamental Basics](#) that all good hams should have seared into their brains. Things like Ohm's Law, the components of a sine wave and converting between frequency and wavelength quantities. This is a page for new or soon-to-be hams to study thoroughly, and us older folks to review occasionally.

Next is a (long) [list of every ham radio club](#) we know about in the Bay Area, Northern California and northwestern Nevada. It includes a link or email address for each, to help people contact the club if they wish. Related to this is our list of [Other Amateur Radio Organizations](#), such as the ARRL, international organizations, conventions and several other types. And we have a third page, with general [Ham Radio Links](#), divided into various categories.

Of course, everyone wants to [Donate to MDARC](#), right? If you or someone you know would like to, this page tells you how. One way to donate without any cost to you is to use our [Amazon Smile web link](#) instead of the normal Amazon link whenever you shop there. That way, Amazon donates to us for you!

The next section in the Resources area is about [Equipment](#). It currently has information on [calculating dipole antenna lengths](#) and [tuning dipoles](#), the [basic equipment](#) needed for an HF station, and a discussion on [International Protection Marking \(IP\) Codes](#). IP codes tell you how well a cabinet or container protects your equipment from water and solid objects (such as dust). It's a good specification to look for when shopping for new gear. And we're looking for more good information to add to this section; preferably stuff that is not brand- or model-specific.

After that is a 7-page section on [Getting Started in Amateur Radio](#). It's pages describe the [different license classes](#); summarize MDARC's recommended study method for [getting your first license](#); recommendations on [upgrading your license](#); along with some suggestions on the practical aspects of [getting on the air](#) and [choosing your first radio](#). We also offer a long list of [things a ham can do](#) when licensed; as well as a few theories on [where the term "Ham" came from](#).

Of particular interest to all hams, especially newer ones, is a [Glossary](#) of terms, acronyms and abbreviations. It includes general radio and related terms but, of course, emphasizes ham terms. Be sure to look this over whenever you have a question about what something means.

Easily the largest section in the Resources area is the one on [Operating Aids](#). As of this printing, it has over two dozen pages and links to other web sites on a wide variety of topics of interest to hams. Such things as our recommended calling frequencies; descriptions of CTCSS, LSB & USB; the Metric System, Coordinated Universal Time (UTC), grid squares and much, much more. Spend some time browsing through this section.

Another very important section is the one on [Regulations](#). It has discussions on the International Telecommunications Union (ITU), the Federal Communications Commission (FCC) and the rules of the road they both put out. It includes links to the actual ham radio (and other) regulations (you have an up-to-date copy, right?) as well as links to various web pages of both organizations; such as searching for an FCC license, determining whether you need to register the tower you plan to install; complying with radio frequency safety guidelines and more.

No less important to all of us is [Safety](#). Our section has a number of links to the ARRL, the California Electric Code, the FCC and OSHA. Please be sure you're familiar with this vital information before it's too late.

The last section in this area is on more [Technical](#) topics. It has discussions on subjects such as Decibels, Maxwell's Equations; Constants & Formulas of interest; transmission line properties; the Skin Effect and others.

There's a lot to find on our web site. Give it a look. As always, if you see an error or something missing from those pages, please let me know.

Thankx,
Mike Patterson, N6JGA Digital Media Committee Chair
n6jga@arrl.net

BOARD OF DIRECTORS MEETING MINUTES - JULY 1, 2019

Black Bear Diner, Walnut Creek, California

Attendees: Larry Bradley KK6QPE, Ed Morales KJ6KYT, Larry Loomer KI6LNB, Cathi Walton K2CJW, Ron Bunch W4FEK, David Piersall N6ORB, Mike Warren W6MEW, John Primus AF6RJ, Mike Patterson N6JGA, Eric Ferguson KA6USJ, Cal Vasquez K6VT, Dick Wade WM6G, Terry Buxton KK6KGX, and Marilyn Warren W6MEW-YL.

The President passed out the agenda and the previous meeting's minutes.

7:00 PM: The meeting was called to order by President Larry Bradley. Introductions were made around the table. Minutes of the last meeting were approved with a comment to add "2017" to the new business item about the check to Bev Heathorn.. The agenda was reviewed.

President: No report.

Vice President: Last month's membership meeting was frustrating because of a non-functioning computer cable. He has the meeting speakers set through the end of the year.

Secretary: No Report.

Treasurer: The additions to the budget report for June, and the present status of the treasury, were reviewed. The changes to the figures on the budget sheet were discussed. No income has come in from PayPal for a while. The Treasurer will check on this.

Education: The education classes are winding down. There will be three weeks off in July. There were 15 new Generals from the MDARC/TLC classes.

Emergency Communications: Everything is moving along.

Pacificon: One third to one half of the forums are filled. For the Vendors, it is too early to decide about Pacificon.

Digital Media: Everything is clicking along.

Outreach: Everything is ticking along. There was a discussion of expanding radio classes to the library on Oak Grove Road in Walnut Creek. The librarian is interested in kit building. What age group should we cater to? We should progress through to greater difficulty kits. Mike P. asked the librarian about setting up a station at the library. There is security to think about. It was suggested that antennas only be set up at the library. The librarian requested beginner's classes for programming individual HTs.

Technical: Nothing is broke. Operation is A-OK.

Vehicle: No report.

Trailer: The Martinez police department decals on the trailer have been covered by MDARC decals. The trailer got lots of attention at Field Day. The visitors were very interested in the FT-8 program being worked on line.

Field Day: The Field Day report to ARRL Headquarters reported 75 participants on the Visitor's Log. MDARC Field Day came up with a 1,348 points score submitted to ARRL.

License Testing: At Field Day, there were 5 new Technicians, 3 new Generals and 1 new Extra.

Public Service: The Fldigi class startup paper has been has been posted on the MDARC website.

Membership: Not present

(continued on following page)

Unfinished Business:

1. Repeater Rebuilding Project: There have still been no official requests for funding.
2. Membership Survey: The Vice President will do a compilation of the results of the survey.
3. The Repeater Operating Policy: The priority for repeater use will be ferreted out at the next Technical Committee meeting.
4. Written Comm. Van policy: The Comm Van Chairman was not present.
5. The Vehicle/Trailer use/safety policy will be sent out to the board for comments, and voted on at the next board meeting.
6. The Membership Coordinator was not present.
7. The Make-it Class item had no comments.

There was a discussion about library presentations, specifically at the Walnut Creek Library on Oak Grove Road. See Outreach above.

8. The Technical Committee Chairman was not present.

New Business

1. A motion by Mike Patterson was passed by almost unanimous consent.
2. Comments on Field Day: The planning should begin earlier and there should be more volunteers. There should be 2 - 3 emails to the members about Field Day. Discussion was held about having a special event station at the Walnut Festival and having QSL cards. Discussion was held about getting help for the administrator of the MDARC Facebook page to do updates. The Vice President volunteered to help.
3. Pacificon advertising in the QST Magazine was discussed.
4. There was a discussion about the programming of radios. Mike P. will do programming of radios once per quarter. The emergency responders should be deleted from the current frequency programming list.

9:05PM: The meeting was adjourned.

Respectfully submitted,

Larry Loomer, KI6LNB, MDARC Secretary

CARES (Concord Auxiliary Radio Emergency Services) is expanding our efforts to expand the number of “Neighborhood” Hams. Neighborhood Hams work with neighborhood CERT members to coordinate emergency services with Concord/Clayton Police dispatch. Besides weekly simplex nets the CARES team holds several drills annually. These drills consist of CERT members using FRS/GMRS radios to communicating with Hams who then relay the messages to the Concord PD, CARES ham radio station next to CPD Dispatch. In a real emergency these messages would then be given CPD Dispatch to handle. Hams in Concord, Clayton and those that can reach the net at CPD Wednesday evening are encouraged to become a neighborhood ham. If you have an interest email rlueck@cpd.ci.concord.ca.us and participate in the Wednesday CARES Net at 8 pm 147.405 Simplex Tone 127.3 Hz, first as a visitor.

— *Rick Lueck, K6REL*

CLUB MEETING MINUTES - JULY 19, 2019

Our Savior's Lutheran Church, Lafayette, California

7:30: The meeting was called to order by President Larry Bradley, KK6QPE. New members were welcomed. New licensees were acknowledged. The location of the restrooms and exits was pointed out. The Pledge of Allegiance was recited by the membership. There were no revisions to the meeting minutes from the previous meeting.

The president had no report.

The vice president brought check lists for emergency kits. He also said that Martinez CERT will be presenting a personal emergency preparedness class and provided a flyer for the class.

The secretary had no report.

The treasurer had no report due to scheduled absence.

The Education Chairman reported that all of the class sessions of the General class have been completed. The license testing session for the class, a GOTA - HF class and two auxiliary classes have been presented as well.

The License Testing chairman reported that 2 Technicians and 2 Generals passed their tests this evening.

The Field Day Committee reported that there were 11 successful license examinations at Field Day.

The 2019 Field Day report was published in the *Carrier*.

There was no Trailer Committee report.

The Public Service Chairman reviewed the upcoming activities. An additional activity is the "Standdown on the Delta", an activity at the Contra Costa County Fairgrounds on September 20 - 23. Hams will be monitoring the crowd for lost people. He has a signup sheet for this event.

7:55: The meeting was adjourned.

Respectfully submitted,

Larry Loomer, KI6LNB

MDARC Secretary

There were no minutes from the June 21, 2019 club meeting because KI6LNB was deployed to the Field Day site in his capacity as Field Day Chair.

Super Fun Summer Activity

Byron, California

Mission 36

QSO

146.430

In The Air, On The Air

HF

14.250

PARACHUTE MOBILE

**AUGUST 17,
2019**



Live streaming video: ustream.tv/channel/mfwright

EchoLink: W6BSD-L AllStar: Node 40490

APRS: Search AF6IM & KC6TYD

Updates at parachutemobile.org

This event is subject to delays or cancellation

Made with PosterMyWall.com

SS Jeremiah O'Brien Tour

September 21, 10:00 AM

Join the Palo Alto Amateur Radio Association (PAARA) on a tour of the SS Jeremiah O'Brien, a WWII Liberty Ship. The cost is \$33 per person and includes a docent guided tour of the ship and a box lunch provided by Boudin's Bakery. Estimated tour time is about 3 Hours. If you choose, you may also, on your own, tour the SS Pampanito, a WWII Submarine docked just forward of the SS Jeremiah O'Brien.

Tour Details

- **Where:** Pier 45, Fisherman's Wharf, San Francisco
- **When:** September 21, 2019, 10:00 AM
- **Cost:** \$33,(includes ship tour and a box lunch)



Last day to sign up is Friday, September 13, 2019.

To sign up for the tour, go to the PAARA website, www.paara.org and click on the link to the tour. Please include your Name, Call Sign, and Lunch selection. Please make a separate order for each person attending.

You may use credit card or PayPal on the PAARA website. You may also use cash or check if paying me directly.

Parking can be an issue. A few parking suggestions will be posted nearer the tour date. Consider carpooling or using public transportation.

Box lunch choices are:

- Tuna Salad (on sliced sourdough)
- Chicken Salad (on sliced sourdough)
- Turkey & Havarti Cheese (on sourdough roll)
- Bavarian Ham & Swiss (on rustic Ciabatta) California Veggie (on sliced sourdough)

All lunches include one (1) Sandwich, one (1) bag of chips, one (1) bottle of water, and one (1) cookie.

If you have questions, contact me at mcwayne2@comcast.net or 408-234-8023.

A little SS Jeremiah O'Brien history

In June 1943 the Liberty Ship SS Jeremiah O'Brien slid down the ways at the New England Shipbuilding Corporation in South Portland, Maine. Shortly thereafter she entered service, operated by Grace Line for the War Shipping Administration. Named for the first American to capture a British naval vessel during the Revolutionary War, the O'Brien made seven World War II voyages, ranging from England and Northern Ireland to South America, to India, to Australia. She also made eleven crossings of the English Channel carrying personnel and supplies to the Normandy beaches in support of the D-Day invasion. After the war, she was "mothballed" and laid up in the Reserve Fleet at Suisun Bay, north of San Francisco.

2019 Ham Radio Licensing Course Registration Available Now!

Mt. Diablo Amateur Radio Club

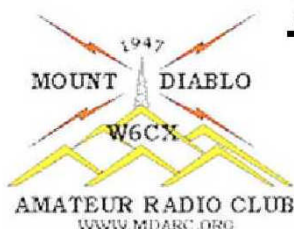
will be holding an 8 week course where you can learn everything you need to earn your 1st level Technician Class

The Technician Class license is your entry to the world-wide excitement of Amateur Radio and Emergency Communications... and now you do

NOT need to learn Morse code!

The last Technician Class for 2019 begins on...

Thursday August 15, 2019



ARRL The national association for
AMATEUR RADIO

First Class starts at 6:30 the rest are from 7-9pm

Trinity Lutheran Church, 2317 Buena Vista Ave.

Walnut Creek, CA 94597

Registration **online** is required. We use the current ARRL Textbooks – Text book details are part of the registration process. Follow up training and License testing will also be available.

Complete class calendar and registration link:

<http://www.mdarc.org/activities/education/Classes>

(If you are new to Ham Radio it is suggested you wait to buy your radio until after you take the TECH license class as some CHEAP radios advertised as Ham radios are out of compliance with FCC rules.)

The auto response at **HamRadioClass@gmail.com** will answer more class questions. If you have Non License questions email:

info@mdarc.org

Morse code is **NOT** required for an Amateur Radio License.



Saturday, October 5th, 2019 - Benicia, CA



AMATEUR RADIO LICENSE CLASS

Study Session followed by Exam

When: Saturday, October 5th, 2019

7:30 AM - 5:00 PM

Where: Benicia Senior Center

1201 East 2nd Street, Benicia

What: Technician Class (beginner's level)

General Class Upgrade (for those already licensed as a Tech)

Fee: \$35.00 (Includes exam fee)

Register: www.BeniciaARC.com

Questions: HamRadioClass@BeniciaARC.com or Bob at (707) 319-9495

Conducted by:

Benicia Amateur Radio Club (BARC)

Member W5YI VEC

Serving the Benicia Fire Department and
the Residents of the City of Benicia

Class size is limited and always fills up.



Please Register and Pre-pay online for a guaranteed seat.

No prep or prior study required.



Prospective Hams should plan on attending a free Get-On-The-Air Class after passing their test, to become familiar with Amateur Radio operations

Reserve Your Space - Become a Ham in One Day!



Can't make the
upcoming class?
Check our website
periodically for our
next session.

Element 4 (Extra class)
You need only pay the
test fee of \$14. We do
not provide study
materials for Element 4.



HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V-V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

ATLANTA, GA
(800) 444-7927

WOODBIDGE, VA
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New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



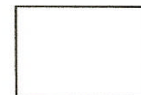
The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

www.mdarc.org



THIS MONTH: THE MIGHTY TRANSISTOR

FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781-
441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

ATV Internet Stream: <http://w6cxatv.mdarc.org/>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

August and September 2019 Club Calendar

Friday August 16, 2019	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette
Saturday September 7, 2019	8:00am	MDARC Technical Committee Meeting - Ygnacio Valley Library 261 Oak Grove Road, Walnut Creek
Monday September 9, 2019	7:00pm	MDARC Board of Directors Meeting - Black Bear Diner 700 Bancroft Road, Countrywood Shopping Center, Walnut Creek
Friday September 20, 2019	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette